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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,249	03/30/2006)/2006 Takashi Makiura K		5616
	7590 08/28/200 AALINO (GENERAL)	EXAMINER		
RENNER, OTT	O, BOISSELLE & SK	WALSH, RYAN D		
	AVENUE, NINETEEI OH 44115-2191	ART UNIT	PAPER NUMBER	
,			2852	
		MAIL DATE	DELIVERY MODE	
			08/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application No.		Applicant(s)	Applicant(s)			
		10/595,249		MAKIURA ET AL.				
Office Action Summary			Examiner		Art Unit			
			RYAN D. W	ALSH	2852			
Period fo	The MAILING DATE of this commu or Reply	nication appe	ears on the d	cover sheet with the d	correspondence ac	ldress		
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLD IN IT IN INTERIOR OF THE INTERIOR OF TH	MAILING DA s of 37 CFR 1.136 munication. tatutory period wi y will, by statute, o	TE OF THIS 6(a). In no even ill apply and will e cause the applica	S COMMUNICATION , however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on <i>10 Jul</i>	ne 2009					
•								
3)	Since this application is in condition	<i>′</i> —			secution as to the	e merits is		
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	☑ Claim(s) <u>1-11</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🛛	☑ Claim(s) <u>6-11</u> is/are allowed.							
6)🖂	☐ Claim(s) 1-5 is/are rejected.							
7)	Claim(s) is/are objected to.							
•	Claim(s) are subject to restri	ction and/or	election red	uirement.				
Applicati	on Papers							
9)□	The specification is objected to by the	ne Examiner						
-	The drawing(s) filed on <u>20 August 2</u>			ed or b) objected	to by the Examine	er.		
<i>,</i> —	Applicant may not request that any obje			•—•	•			
				-		FR 1.121(d).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ination Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			Interview Summary Paper No(s)/Mail Da Notice of Informal F Other:	ate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/7/2009 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Baba et al. (US Pat. # 5,455,665), hereinafter referred to as Baba.

Regarding claim 1, Baba teaches, "A cleaning device, comprising: a cleaning unit (Fig. 10, ref. # 7) which is provided with an open portion (between ref. #'s 5 & 6 contacting 1) disposed opposite an outer circumferential portion of an image bearing member (1) and is disposed downstream of a position for transferring to a paper a toner image which is formed on the image bearing member; a cleaning blade (5) which is provided in the interior of the cleaning unit and wherein an apical portion abuts the outer circumferential portion of the image bearing member, for scraping off residual toner

Art Unit: 2852

attached to the image bearing member; and a toner catching sheet (6) disposed upstream in a rotating direction of the image bearing member from the open portion of the main body of the cleaning unit body, said toner catching sheet being provided in the interior of the cleaning unit and parallel in a lengthwise direction to an axial direction of the image bearing member (see Fig. 10 and Fig. 6), wherein in the toner catching sheet (6), a first end portion (where 6 attaches to 20 in Fig. 6) in a direction perpendicular to the lengthwise direction is affixed to the cleaning unit, a second end portion (where 6 contacts 1 in Fig. 10, also near ref. # 6b in Fig. 6) is opposed to the first end portion, the second end portion having a ridge line which abuts the outer circumferential portion of the image bearing member (where 6 contacts 1), the ridge line of the second end portion is parallel in the axial direction of the image bearing member (see Fig. 6, ref. # 6's ridge line is parallel along the entire length of 6 to ref. # 1) and a free length from an affixed position of the first end portion until the position at which the ridge line of the second end portion abuts the outer circumferential portion of the image bearing member is determined by an amount of paper dust buildup on the outer circumferential portion of the image bearing member in the lengthwise direction (see Fig. 6 and 10)." Note: Kaji (JP 09-090837) is cited to support the rejection of claims 1-3, to show where the majority of paper dust is built up. Baba is a 102b rejection because it teaches each and every structure claimed in claims 1-3.

Regarding claim 2, Baba teaches, "wherein in the toner catching sheet, a first free length corresponding to a location at which there is a large amount of paper dust buildup on the outer circumferential portion of the image bearing member is longer than

a second free length corresponding to a location at which there is a small amount of paper dust buildup on the outer circumferential portion of the image bearing member (see Fig. 6 & 10, paper dust would be larger in center of 6)."

Regarding claim 3, Baba teaches, "further comprising a sheet attaching member for affixing the toner catching sheet to the cleaning unit in the interior of the cleaning unit, wherein the affixed position of the first end portion of the toner catching sheet with respect to the sheet attaching member includes a first affixed position which corresponds to the first free length and a second affixed position which corresponds to the second free length, the first affixed position being set to a position separated further from the outer circumferential portion of the image bearing member than the second affixed position, such that the first free length is longer than the second free length (see Fig. 6, ref. # 6 and 20, and Fig. 10)."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baba (US Pat. # 5,455,665) in view of Kaji et al. (JP 09-090837), hereinafter referred to as Kaji.

Regarding claim 4, Baba does not teach, "wherein the location at which there is a large amount of paper dust buildup on the outer circumferential portion of the image bearing member corresponds to a region in which is disposed a separating member for

transporting the paper to the image bearing member one sheet at a time in the axial direction of the image bearing member." However, Kaji teaches the deficiencies of Baba (see Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Baba's invention to include wherein the location at which there is a large amount of paper dust buildup on the outer circumferential portion of the image bearing member corresponds to a region in which is disposed a separating member for transporting the paper to the image bearing member one sheet at a time in the axial direction of the image bearing member.

The ordinary artisan would have been motivated to modify Baba's invention in a manner described above for at least the purpose of removing paper dust or dirt from an area where a high buildup of paper dust occurs.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baba (US Pat. # 5,455,665) in view of reference B (JP 58-010462).

Regarding claim 5, Baba does not appear to teach, "wherein the toner catching sheet is a resin film and is charged with the opposite polarity of charge characteristics of toner." However, reference B teaches the deficiencies of Baba (see partial of abstract cited on IDS). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Baba's invention to include wherein the toner catching sheet is a resin film and is charged with the opposite polarity of charge characteristics of toner.

Application/Control Number: 10/595,249 Page 6

Art Unit: 2852

The ordinary artisan would have been motivated to modify Baba's invention in a manner described above for at least the purpose of easily attracting residual toner remaining on the photoconductive drum to facilitate the cleaning process.

Allowable Subject Matter

Claims 6-11 are allowed.

Response to Arguments

Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN D. WALSH whose telephone number is (571)272-2726. The examiner can normally be reached on M-F 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on 571-272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/595,249 Page 7

Art Unit: 2852

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ryan D Walsh/ Examiner, Art Unit 2852